

MEASLES UPDATE

National Immunization Program, Centers for Disease Control & Prevention

Morbidity & Mortality Weekly Report

Cumulative # of Cases Reported through Week 42 91
(Week ending October 20, 2001)

Number of Cases Reported for Same Period in 2000 71

Number of International Importations in MMWR 42

Number of Cases Reported during Weeks 33-42: 9
(cases received are highlighted on the attached tables)

NEW YORK CITY 3

Manhattan reported 3 of the 4 cases in July that occurred among a group of Japanese students arriving in the U.S. on 7/17. Genomic sequencing done at CDC was compatible with Japan (D5). See Imports 45-47 or Outbreak #7.

PENNSYLVANIA 1

Philadelphia reported 1 case in a 25-year-old graduate student who arrived from Ulaanbaatar, Mongolia on 7/25; rash onset date 7/29. The patient was hospitalized for 5 days with pneumonia. No spread cases were identified. See Import # 51.

ARIZONA 1

Maricopa County reported 1 case in a 24-year-old female, who was hospitalized with rash, fever, and vomiting on 9/4. Her rash began on 9/2. The patient traveled to Los Angeles during her exposure period, visiting a Theme Park on 8/17. See Indigenous #49.

OREGON 1

Marion County reported 1 case in a 37-year-old female with rash onset 9/1. She visited the same L. A. Theme Park as the above AZ case on 8/16 & 8/17. Her symptoms included 3 day prodrome of photophobia, 3 c's, fever, followed by a maculopapular rash lasting 9 days. Vaccine history was not documented but she thought she had received one dose in 1964. See indigenous #48.

CALIFORNIA 1

San Diego reported 1 case in a 6-year-old resident who arrived from Frankfurt, Germany via Lufthansa 430 on 7/25. Fever onset was 7/26 with rash onset 7/29. See import # 50. The family had a 1-hour layover in Chicago arriving in San Diego via United Airlines Flight # 929. The family contacts refused vaccinations. Spread cases include 3 family members—not yet reported to the MMWR. See outbreak #8.

CALIFORNIA 1

Los Angeles reported 1 case in a 10-year-old with rash onset 3/8. Source of infection is unknown. See indigenous #27.

CALIFORNIA 1

San Bernadino reported 1 case in a 39-year-old male with rash onset 3/26. Source of infection was a 38-year-old in Los Angeles with rash onset 3/14. Genomic sequencing was D5 from the San Bernadino case. See Indigenous #30.

National Immunization Program Report

Year to date, a total of 105 confirmed cases have been reported to the National Immunization Program from 22 states. This includes 53 internationally imported cases from 16 states. Largest number of imported cases have been from Japan (17) & China (14); followed by Korea (5), Philippines (4), Pakistan (3), and Russia (3).

Recent cases not yet reported to MMWR:

PITTSBURGH, PA confirmed measles in a 23-year-old Japanese tourist arriving on 7/3. The patient met the case definition for measles and was hospitalized in isolation for 2-3 days with pneumonia. Rash onset was 7/7. No viral specimens were obtained. See Import # 44.

LOS ANGELES, CA will report a positive case in a 10-year-old arriving from Japan with a tour group on 7/29. The flight from Tokyo to LAX on 7/29 was JAL 62. The child was febrile on the flight with rash onset next day on 7/30. Genotyping on viral specimen collected 8/1 was D5. See Import # 49.

New Activity:

HENNEPIN County, MN is awaiting lab results on a 2-week old (Somali) infant born in Minneapolis on 8/17. Rash onset was 9/2. Symptoms included only rash and fever. A positive viral culture from an NP swab collected on 9/1 is being processed at CDC, as well as serum collected 9/19.

HENNEPIN County, MN is awaiting final lab results on a 10-year-old Somali girl arriving in U.S. on 8/22. Her rash onset was 8/29. She arrived from Kenya with her parents and teenaged siblings. The child presented 3 times at county emergency. CDC received urine and serum collected on 8/30-31. See Import #52.

SAN FRANCISCO, CA had 6 serologically confirmed during 8/29 - 9/22:

3 confirmed cases compose new Outbreak #9 ; involving 1 import from Europe and 2 secondary cases. Rash onset dates were 9/8, 9/16 & 9/18: The index case is a 27-year-old U.S. resident, who had rash onset 9/8 after 4 days of fever, cough, coryza, and photophobia. He had returned from travel in Europe on 9/1. His infectious period was from 9/4 to 9/12. Two of his 3 roommates had onsets of rash on 9/16 and 9/18. The index had history of one MMR and the 2 secondary cases had no documented history of measles vaccinations. The secondary cases are musicians, who played venues in San Francisco, San Mateo and Santa Clara while infectious. A viral specimen was obtained from this 3-case outbreak.

3 other cases (unrelated) confirmed in San Francisco:

One case with unknown source was confirmed in a homeless person with rash onset 8/29. He had classic symptoms.

Two other separate cases occurred in adults with rash onsets 9/20 and 9/22. Neither is currently linked to the 3-case outbreak, nor has any other identifiable source. However, the County is investigating further. These 2 are listed as indigenous 51 & 52.

INTERNATIONAL IMPORTATIONS - MEASLES 2001							As of 10/26/01	
#	Proj	Age/DOB	Rash	VAX	Spread	Reported to MMWR	Specimens Received	Comments/Source Country
01	CA	8-month-old male	1 / 2 /01	No	No	Yes		Contra Costa County resident returned from Philippines in December 2000. He was in the Phillip 12 / 2 - 28. Source was her aunt in Philippines.
02	CA	13-yr-old male	1 / 2 /01	Yes	No	Yes		Los Angeles resident returning from Korea
03	WA	16 year old male	1/10/01	No	Yes (3)	Yes		King County resident returning from Korea in a village known to be experiencing measles. Source case for Northwest School cluster. PART OF THE SOUTH KING COUNTY OUTBREAK--SCHOOL CLUSTER
04	CA	25-year-old	1/15/01	Unk	No	Yes		San Diego County; Tourist / Japan
05	ID	35-year-old male	1/16/01	?	No	Yes		U.S. resident returned from mission work in Korea during 12/26/00 - 1/5/01.
06	MD	29-year-old male	1/21/01	No	Yes (3)	Yes		U.S. resident returned from Philippines on 1/14. Infected 2 sibs in MD and 1 sib in PA. All unimmunized due to religious exemptions WASHINGTON CO. MD OUTBREAK
07	IL	27-year-old female Cook County	1/22/01	Unk	Yes (1)	Yes		Cook County resident in KOREA 12/12 - 1/22. On AA flight 1/22 with her 9-month-old. 2-case chain/KOREA
08	MA	24-year-old male	1/26/01	Yes	Yes (2)	Yes	SEQUENCE = D4	College student returned from Pakistan on 1/17/01. Known exposure in Pakistan to his 2 siblings ill with measles-like illness. Case was hospitalized for 4 days COLLEGE OUTBREAK / Pakistan
09	IL	9-month-old female	2/2/01		No	Yes	SEQUENCE = H1	Cook County resident in Korea 12/12 - 1/22. On AA flight 1/22 with her mother above. 2-case chain/source is KOREA
10	TX	10-month-old female	2/15/01	No	Yes. 13	Yes, but as indigenous		Chinese adoptee arrived LAX to Houston 2/14/01 Fort Bend County .INDEX for OUTBRK in adoptees
11	NYS	1-year-old male	2/16/01	No	No	Yes		Nassau County resident / Pakistan IgM+; returning from Pakistan 2/11 "HB"
12	GA	2-year-old female	2/17/01	Yes, 12 mos		Yes, but as indigenous		U.S. resident returning 2/16 from CHINA with adoptee-sibling. Resides in DeKalb County, GA. On flight from Detroit to Atlanta. This child was formerly adopted from Russia and had hx of 1MMR at 12 mos. OUTBREAK RELATED
13	CA	17-year-old	2/17/01	Unk	No	Yes		Orange County OUTBREAK Tourist/Japanese high school group visited Disneyland
14	CA	17-year-old	2/17/01	Unk	No	Yes		Orange County OUTBREAK Tourist/Japanese high school group visited Disneyland
15	MO	10-month-old female	2/18/01	No		Yes, but as indigenous		Chinese adoptee arrived 2/16. Barry County OUTBREAK RELATED. Parent rashed 2/26
16	CA	17-year-old	2/19/01	Unk	No	Yes		Orange County OUTBREAK Tourist/Japanese high school group at Disneyland
17	CA	17-year-old	2/17/01	Unk	Yes, 1 in Ventura	Yes		Orange County OUTBREAK Tourist/Japanese high school group visiting Disneyland HOSPITALIZED
18	CA	5-year-old	2/19/01	Yes 9mos	No	Yes		Los Angeles County resident/Philippines
19	MN	13-month-old female	2/23/01	No		Yes, but as indigenous		Chinese adoptee arrived 2/16. Hennepin County OUTBREAK RELATED
20	NYS	9-month-old female	2/23/01	No		Yes		Chinese adoptee in Westchester County OUTBREAK RELATED
21	IN	10-month-old female	2/25/01	No		Yes		Chinese adoptee into Vanderburgh County OUTBREAK RELATED
22	MO	38-year-old female	2/26/01	Yes	No	Yes, but as indigenous		Mother of Chinese Adoptee returned to US on 2/16. Barry County. Her adopted child had rash onset 2/18. OUTBREAK RELATED

INTERNATIONAL IMPORTATIONS - MEASLES 2001							As of 10/26/01	
#	Proj	Age/DOB	Rash	VAX	Spread	Reported to MMWR	Specimens Received	Comments/Source Country
23	WA	30-yr-old pregnant female	2/26/01	Unk	No	Yes	Sequence = H1 matches Minnesota case 2/26	Seattle/King County returning from Guangzhou, CHINA on 2/16 4 mos pregnant Not linked to orphanages or embassy.
24	NYS	10-month-old female	3/1/01	No	Yes (1)CT	Yes		Chinese adoptee arrived JFK 2/24; JA006 Westchester County. OUTBREAK RELATED CHINA
25	CA	30-yr-old (9/70)	3/1/01	No	No	Yes		San Mateo County, hospitalized IMMIGRANT from Australia
26	IL	11-month-old female	3/3/01	No		Yes		Chinese adoptee arrived 2/24/01 Mc Henry County OUTBREAK RELATED CHINA
27	IN	45-year-old female	3/3/01	Unk		Yes	Sera to CDC	Mother of adoptee returned 2/24/01 Howard County OUTBREAK RELATED CHINA
28	OH	10-month-old female	3/4/01	No		Yes		Chinese Adoptee arriving 2/24/01 Hamilton County OUTBREAK RELATED CHINA
29	OH	10-month-old female	3/4/01	No		Yes		Chinese Adoptee arriving 2/24/01 Warren County OUTBREAK RELATED CHINA
30	NYS	11-month-old female	3/7/01	No		Yes		Chinese Adoptee in Nassau County OUTBREAK RELATED CHINA
31	HI	17-year-old	3/10/01	Yes, 2 yrs	No	Yes		Honolulu case, Japanese resident arrived 3/10 vax at 2 years of age
32	CA	20-year-old	3/16/01		No	No		Monterey, import from Japan
33	NJ	10-month-old	3/29/00	No	No	Yes		US resident of Middlesex County, Pakistan
34	IN	8-month-old male	4/2/01	No	Yes, 1	Yes	Yes, urine & nasal	Russian Adoptee in St. Joseph County (South Bend) 2-case chain (mother 4/14) Arrived in Chicago with rash onset on 4/2
35	PA	41-year-old male	4/3/01	No	No	Yes	No	Lancaster County US resident traveled from Philadelphia to London then Italy on 3/17-21. His 8-month -old child rec'd IG.
36	PA	2-year-old from Philippines	4/5/01	No	Yes, 2 spreads 4/20 & 5/7	Yes		From the Philippines; IgM+ Two others linked (indigenous traceable to an import) OUTBREAK = BEDFORD COUNTY
37	OH	24-year-old female	4/13/01	Unk	No	Yes		College student in Columbus returning from Russia (in Russia 3/25-4/3). 104 temp, cough, coryza, conj, IgM+ Hospitalized 2 days. Vax status unknown.
38	IN	38-year-old female	4/14/01	Unk		Yes	?	U.S. mother adopting Russian baby. Returned to US on 4/2. IgM +
39	HI	41-year-old	4/14/01	Yes		Yes		Honolulu case, US resident travel to Japan on 3/26 to 4/3. Febrile 4/3, IgM+, 3cc's. Local graduate who remembers one dose.
40	CA	1-year-old	4/20/01	No		Yes, Wk 25		Los Angeles, import from Japan
41	CA	25-year-old	4/30/01			No		Alameda (Berkeley) import from Japan
42	HI	12-year-old	5/5/01	No		Yes		Import from Japan (resides in Japan)
43	HI	16-year-old in Kauai	5/30/01	No, relig exem	No	Yes	direct PCR = D5	US resident/unknown country H.S. student with rash 17 days after return from Italy. Sequencing was D5 (similar to Japan)
44	PA	23-year-old	7/7/01		No	No	No	Tourist, Japan arrived in Pittsburgh 7/3; IgM+ hospitalized 3 days w/pneumonia. Met case definition.
45	NYC	19-year-old	7/14/01	No	Yes, 3 in group 7/30-31	Yes	Yes, positive PCR urine & np D5	Japanese student arrived JFK on 7/17 with 70 others 3 spread cases with rash onsets 7/30-31 from same group visiting local University. All 4 are considered imports. None had vaccination records.

						to MMWR	Received	
46	NYC	19-year-old	7/30/01	No	No	Yes, but as indigenous should be import	Yes, D5	Japanese students visiting University
47	NYC	20-year-old	7/31/01	No	No	Yes, but as indigenous, should be import	Yes, D5	Japanese student visiting University
48	NYC	19-year-old	7/31/01	No	No	No	Yes, D5	Japanese student visiting University
49	CA	10-year-old	7/30/01		No	No	Yes, PCR+ D5	Orange County ; Japanese visitor arrived on 7/19 with a tour group. Flight on 7/29 Tokyo to LAX JAL 62; child febrile on flight. Rash onset 7/30. Seen at Los Angeles clinic on 7/30; met case definition CDC received viral specimen collected 8/1/01. IgM+
50	CA	6-year-old (7-95)	7/29/01		Yes, 3 family members	Yes		San Diego OUTBREAK child traveled from Frankfurt, GERMANY via Lufthansa 430 on 7/25/01. Layover in CHICAGO then United 929 to San Diego. Fever 7/26 & rash 7/29, IgM+.
51	PA	25-year-old	7/29/01	Yes, 2 in 1977	No	Yes		University graduate student arriving from Ulaanbaatar, Mongolia on 7/25/01. Hospitalized with pneumonia. IgM+, DFA+ NP+ Host university noted the patient had rec'd 2 MMRs in 1977; not verified. (NETSS Case id 12661)
52	MN	10-yr-old	8/29/01	No		No	Yes	Arriving from Kenya on 8/22, Somalian refugee Came with parents and teenage siblings Hennepin County
53	CA	27-year-old	9/8/01	Yes, 1dose	Yes, 2 room-mates	No		San Francisco resident traveled to Europe and returned on 9/1. He is source of infection for 2 of his roommates (rash onset 9/16 & 9/18). SAN FRANCISCO OUTBREAK

INDIGENOUS CASES - MEASLES 2001						10/26/ 01		
#	Proj	Age/DOB	Rash	VAX	Spread	Reported to MMWR	Specimens Received	Comments/Source Country
01	HI	29-yr-old	12/30/00	Unk		Yes		2000 rash onset reported in Year 2001
02	OR	12-mo-old	1/5/01	No	Yes, 1 (#7)	Yes, resent Wk 26		Washington County, Oregon 2-case chain w/source unknown
03	WA	14- mo old King County	1/11/01	No	Yes, to #13 grand-mother	Yes	SEQUENCE = H 1	Visited SeaTac Mall SOUTH KING COUNTY OUTBREAK Source is unknown
04	WA	10 year old initials A. M.	1/12/01	No		Yes	SEQUENCE = H1	In SeaTac Movie Theatre on 12/31/00 SOUTH KING COUNTY OUTBREAK - MOVIE CLUSTER Source is unknown
05	WA	37 year old	1/13/01	Yes		Yes		In SeaTac Mall Theatre on 12/31/00 FEDERAL WAY OUTBREAK Source is unknown
06	WA	8 year old	1/14/01	No		Yes	SEQUENCE = H1	In SeaTac Mall Theatre on 1/23/00 SOUTH KING COUNTY OUTBREAK - MOVIE CLUSTER Source is unknown
07	OR	34-year-old male (10-66)	1/16/01	?		Yes, resent Wk 26	urine unsuccessful	Washington County, Oregon Father to above 12-mo-old (case 2) w/rash 1/5/01
08	CA	28-year-old born in 1972 college student	1/18/01	Yes		Yes, Wk 32		Los Angeles County/Pasadena - Source Unknown
09	WA	16 year old	1/26/01	Unk		Yes	urine SEQUENCE = H1	SOUTH KING COUNTY OUTBREAK Traceable to import/Korea - SCHOOL CLUSTER
10	MD	17 year old brother (dob 7-83)	1/26/01	NO		Yes	throat swab SEQUENCE = D 3	Source is brother/Philippines Traceable to an import WASHINGTON CO. MD OUTBREAK Religious exemption

INDIGENOUS CASES - MEASLES 2001						10/26/ 01		
#	Proj	Age/DOB	Rash	VAX	Spread	Reported to MMWR	Specimens Received	Comments/Source Country
11	MD	19 year old brother (dob 10-81)	1/26/01	NO		Yes	throat swab SEQUENCE = D3	Source is brother/Philippines Traceable to an import WASHINGTON CO.MD OUTBREAK Religious exemption
12	WA	14 year old	1/26/01	Unk		Yes		SOUTH KING COUNTY OUTBREAK Traceable to Import #3/Korea --SCHOOL CLUSTER
13	WA	40-year-old	1/26/01	Unk		Yes		Epi-linked (family) to 14-month-old grandchild SOUTH KING COUNTY OUTBREAK - Mall
14	PA	24-year-old sister	1/30/01	NO		Yes		Source is brother/Philippines Traceable to an import WASHINGTON COUNTY, MD OUTBRK Religious exemption
15	WA	17 year old	2/4/01	Yes, at 15 mos		Yes	urine SEQUENCE = H1 MATCHED ILLINOIS IMPORTS FROM KOREA	Traceable to Import #3/Korea SOUTH KING COUNTY OUTBREAK -SCHOOL CLUSTER
16	CA	23-year-old female (dob 1977)	2/4/01	Yes, @12mo		Yes		Los Angeles County; source unknown case id 310020
17	VT	19-year-old college student	2/5/01	Yes, 2 MMRs		Yes	viral specimens obtained by State. Urine negative at CDC	Repeating blood work Hx of 2 doses of MMR
18	MA	21- year-old college student	2/5/01	Yes		Yes	SEQUENCE = D4 urine, np	college outbreak/Pakistan traceable to import #8 PAKISTAN
19	MA	29-year-old health care worker	2/6/01	Yes		Yes	urine, np unsuccessful	college outbreak/Pakistan traceable to an import Case works at the college health center; hx of 2 doses as a child but negative for IgG years later. Had been excluded after exposure to case #1 on 1/23 & 1/26.
20	WA	32-year-old nurse	2/12/01	Yes		Yes		Nurse in Federal Way District. No epi link but Part of SOUTH KING COUNTY OUTBREAK
21	WA	34-year-old "D. T."	2/13/01	Unk		Yes		Lives in South King County, considered part of SOUTH KING COUNTY OUTBREAK
22	WA	11-year-old ISLAND CO.	2/20/01	Yes, at age 3	?	Yes		Had been to Disneyland and Southern California on 2/1-11. No documentation of vaccine but memory of one dose.
23	CA	3-year-old	2/20/01	Unk		Yes		Riverside County. No travel except to Universal on 2/7.
24	MN	31 year old	2/26/01	Unk		Yes	tc, Sequence = H1	Travel to CA & TX. Awaiting travel itinerary. Unknown source. Genotype matches WA import from China--see import # 23
25	WA	40-year-old Clark Co.	3/1/01	No		Yes	urine + pcr = /h1	Clark County case, meets case def, IgM+ cough, coryza, 101, sore throat seen at Vancouver Med Ctr on 3/1 then at Southwest Washington Med Ctr. On 3/3
26	CA	45-year-old female	3/2/01	Yes		Yes		Ventura County homemaker was at Disneyland on 2/15-17. Possibly linked to the Japanese high school students, also at Disneyland.
X	WA	19-month-old ISLAND CO.	3/8/01	Yes, @ 12mo		Yes, but WA plans to delete		This case was IgM+ but repeat testing of acute and convalescent showed no rise in titer
27	CA	10-year-old female 2-91	3/8/01	No		Yes		Source unknown Los Angeles
28	CT	46-year-old female	3/13/01	Unk		Yes	No	Exposed to Chinese adoptee in NYS on 3/1-3 ORPHANAGE OUTBREAK RELATED Remembered having measles as a child
29	CA	38-year-old	3/14/01	No	Yes, 1	Yes		Part of 2-case chain; source unknown Linked to case #30 San Bernadino

INDIGENOUS CASES - MEASLES 2001						10/26/ 01		
#	Proj	Age/DOB	Rash	VAX	Spread	Reported to MMWR	Specimens Received	Comments/Source Country
X	OR	19 month old female	3/21/01	Yes @17mos		Yes - to be deleted		Multnomah County IgM+ 60 days after vax; meets case definition Traveled to Kent, WASHINGTON during exposure period
30	CA	39-year-old San Bernadino	3/26/01			Yes	Yes, virus isolated from t.c. D5	IgM+ Part of 2-case chain Linked to case "BS" in L.A. county with 3/14 rash onset. Los Angeles isolated the virus
31	CA	10-month-old	3/30/01	No		Yes, Wk 25		Los Angeles source unknown
X	NYS	15 month-old (11-6-99)	4/3/01	Yes, 2/19		YES but will be deleted per NYS		Wyoming County resident rec'd vax 2/19 with rash 4/19 cough, coryza and fever
32	CA	34-year-old	4/13/01	Yes, < 8mos		Yes, Wk 23		Source unknown MARIN county
33	PA	25-year-old male	4/20/01	Unk		Yes, but as import Should be indigenous, traceable		Traceable to an import /Philippines outbrk related Bedford county
34	HI	55-year-old	4/27/01	No		Yes, Wk 28		Honolulu resident infected in doctors office. Source is 41-year-old import from Japan w/rash onset 4/14/01. (Part of 2-case chain)
35	KY	1-year-old	4/28/01	Yes		Yes		Menifee County IgM+; met case def Is this related to the case below in Shelby County Source unknown
36	KY	13-year-old	4/30/01	Yes, 2 doses		Yes		Shelby County, IgM+, met case def Source unknown 2 doses after 1 st birthday
37	PA	41-year-old	5/7/01	No		Yes, but as import. Should be indigenous, traceable		Physician who thought he had disease as a child Linked to import from Philippines Bedford Co. OUTBREAK
38	VA	30-year-old female	5/16/01	Yes, @ 14 mos		Yes, Wk 31		Unknown source; No spread
39	CA	29-year-old	5/17/01	Yes		Yes		Los Angeles County, Source Unknown
40	HI	18-year-old Honolulu id 2061	eventdate 8/1/01	?		Yes, Wk 32		Extended data not yet received
41	CA	2 yrs "JC"	8/6/01	Yes, 1 dose	No	No		Alameda County, unknown source IgM+
42	CA	43-year-old (5-58)	8/12/01	No, PBE		No		Relative to import from Germany - see San Diego outbrk
43	CA	10 yrs (2-91)	8/13/01	No, PBE		No		Relative to import from Germany - see San Diego outbrk
44	CA	8 yrs (6-93)	8/14/01	No, PBE		No		Relative to import from Germany - see San Diego outbrk
45	MN	10-year-old refugee	8/29/01	No		No		Arrived from Kenya 8/22 (Somalian refugee).
46	CA	adult male	8/29/01			No		homeless person, classic symptoms No known link to others in San Francisco unknown source
47	OR	37 yrs	8/29/01			Yes		At California Theme Park on 8/17 (See AZ case below)
48	AZ	24 yrs	9/1/01			Yes		At California Theme Park on 8/17; Acute 9/5 and convalescent 9/18 results IgM+ using capture EIA at CDC lab.

INDIGENOUS CASES - MEASLES 2001						10/26/ 01		
#	Proj	Age/DOB	Rash	VAX	Spread	Reported to MMWR	Specimens Received	Comments/Source Country
--	MN	2-week-old	9/2/01	No		No	Yes, pending viral culture and serum received	Somali baby born in USA Specimens being run at CDC IgM- at state lab but + viral culture np
49	CA	20's	9/16/01	Unk		No		San Francisco OUTBREAK; source was roommate returning from travel to Europe.
50	CA	20's	9/18/01	Unk		No	Obtained	San Francisco OUTBREAK; source was roommate returning from travel to Europe. VIRAL SPECIMEN OBTAINED.
51	CA	college student	9/20/01	?		No		San Francisco (not linked) A foreign born University student. No known travel. Source is unknown but investigation continues..
52	CA	adult male	9/22/01	?		No	Obtained	San Francisco (not linked) U.S. resident (foreign born) no known history of vax. Employed in a restaurant kitchen. VIRAL SPECIMEN OBTAINED. Source unknown but investigation continues. .

YEAR 2001 OUTBREAKS (3 or more cases)							
Shaded = outbreak was epi-linked to an imported case Double outline = viral sequencing was successful for an outbreak case							
#	Proj	Location	1 st & Last Rash	#Conf Cases	Ages	Source	Comments
1	WA	South King County Outbreak	1/10 - 2/13	11	14 months to 40 years	Unknown Korea & H1	3 clusters in South King County/Seattle/Federal Way District; VIRAL SEQUENCING H1
2	MA	Boston	1/ 26, 2/5 & 2/6	3	24 years, 21 years, 29 years	Pakistan	College cluster 1 Import + 1 student & 1 health care employee at college VIRAL SEQUENCING = D4
3	MD & PA	Washington County, MD	1/21 - 1/31	4	29 yrs old 17 yrs 19 yrs 24 yrs	Philippines	1 import (U.S. resident) + 3 spread cases to siblings in Maryland (2) and Pennsylvania (1) Religious Exemptions VIRAL SEQUENCING = D3
4	TX MO MN NY IL IN OH GA CT	Multi-State	2/15 - 3/13	14	9 to 11 month old adoptees 38 years 44 years 46 years	China	10 Chinese adoptees (TX, MO, MN, NY, IL, IN, OH, OH) 1 sibling to adoptee (GA) 2 parents of adoptees (MO & IN) 1 friend/caretaker spread case (CT) 3/13 LRO No virals from this outbreak
5	CA	Orange Co.	2/17 - 3/2	4 - 5	teens & 45 yrs of age	Japan	4 Tourists from Japan at Disneyland 2/15-19; also one confirmed case in a Ventura County resident at Disneyland on 2/17.
6	PA	Bedford County	4/5 - 4/20 & 5/7	3	2 years 25 years & 41 years	Philippines	1 import from Philippines + 2 spread cases
7	NYC	Manhattan	7/14, 7/30-31	4	18-19 years	Japan	4 imported cases from Japan All 4 belong to a group of 70 Japanese students arriving on 7/17; Visited a university . PCR at CDC = D5.
8	CA	San Diego	7/29, 8/12, 8/13, 8/14	4	6 years; 43 yrs, 10 yrs, & 8 yrs	Germany	All personal belief exemptions in one family. Index is 6-year-old import (US resident) returning from Germany on 7/25. 3 spread cases in family members.
9	CA	San Francisco	9/8, 9/16, 9/18	3	Late 20's	Europe	27-year-old returned from Europe on 9/1, prodromal 9/4. Secondary cases (2) are roommates. VIRAL SPECIMEN being processed.